

FIG. 1

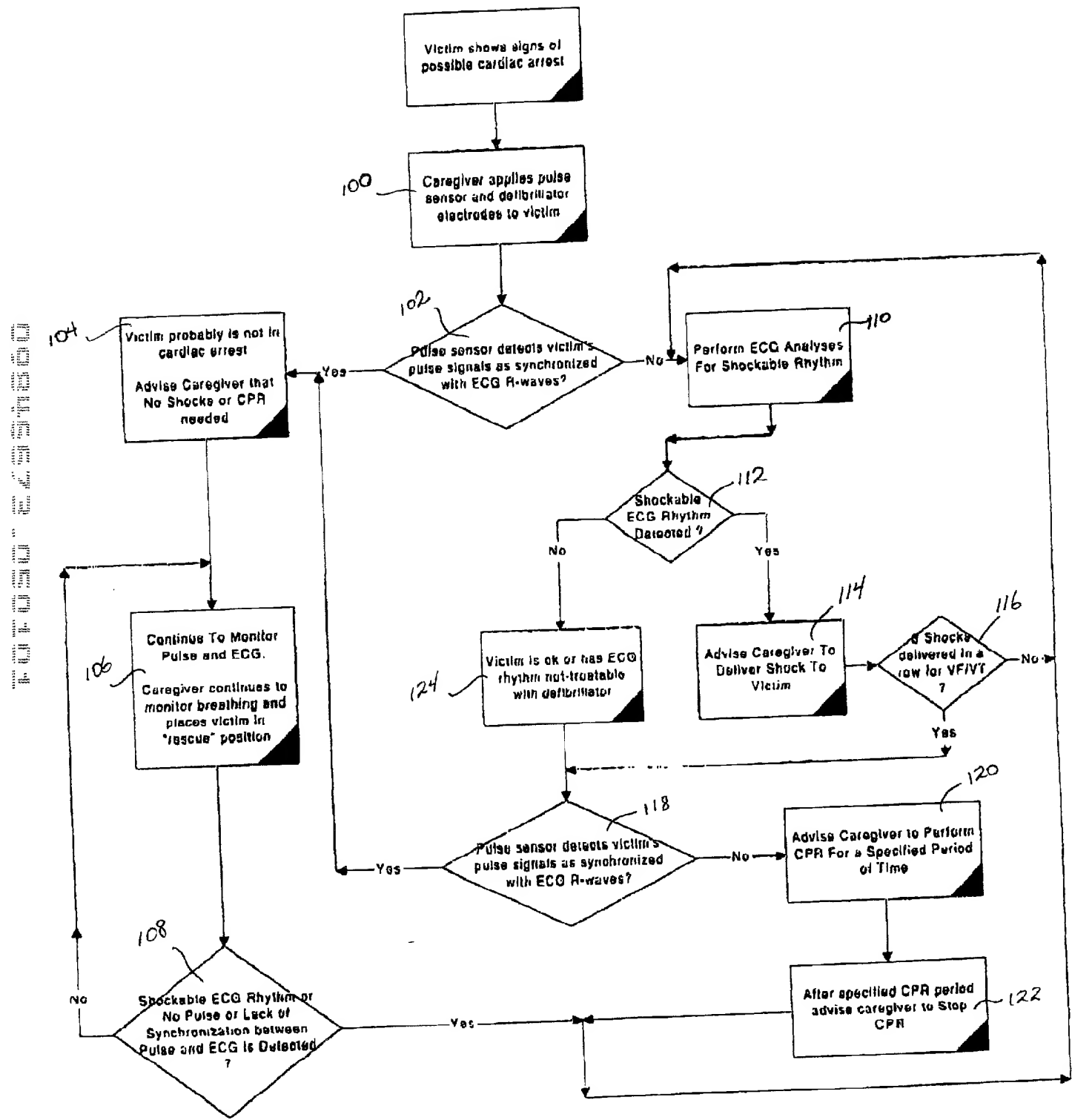
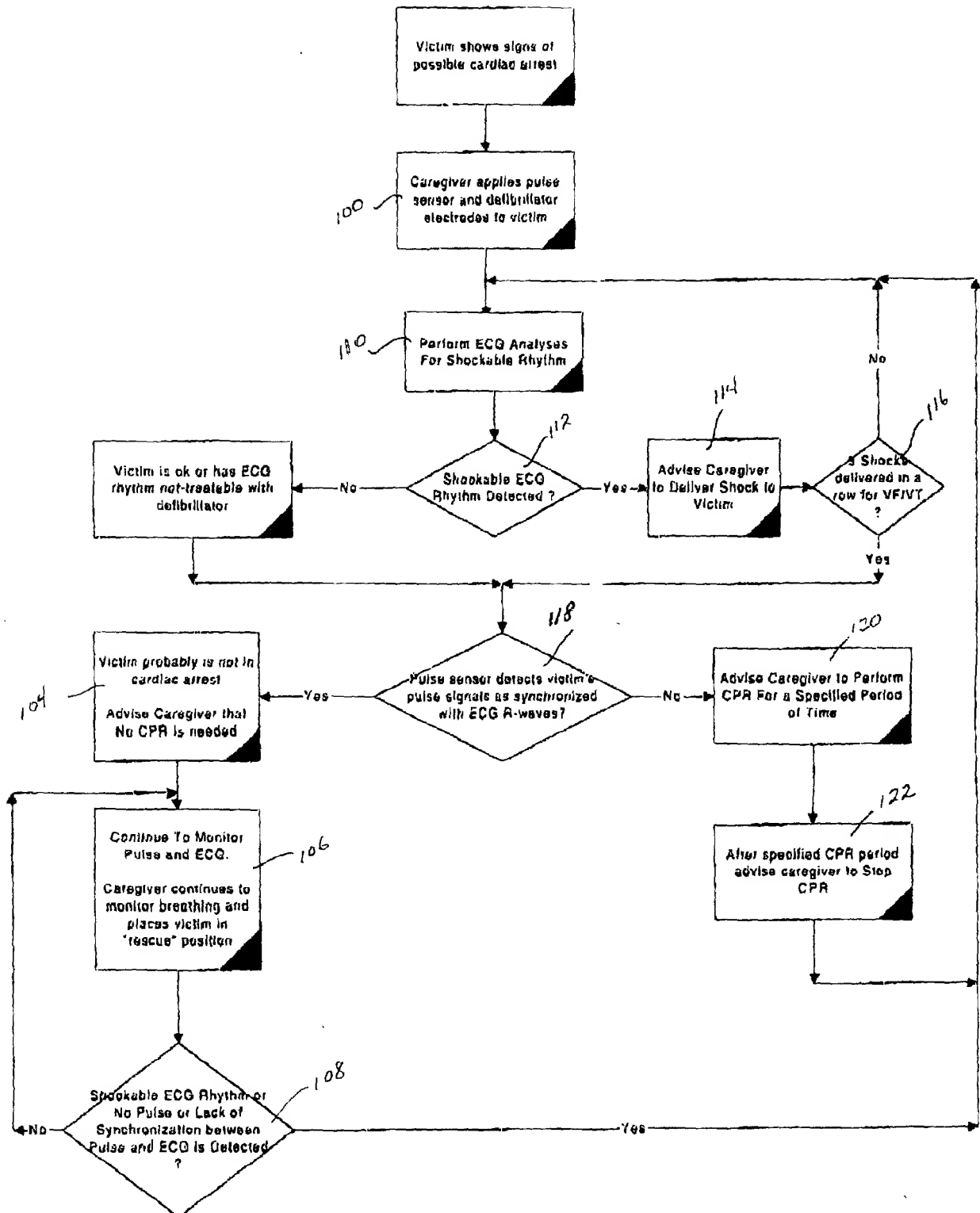


FIG. 2



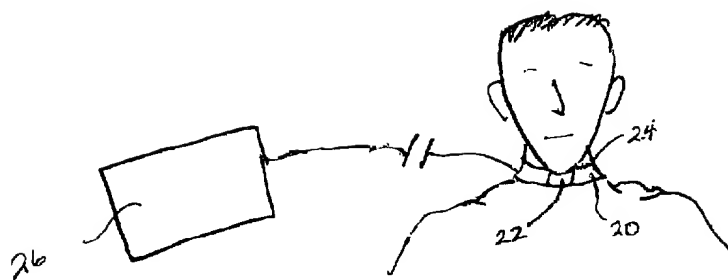


FIG. 3

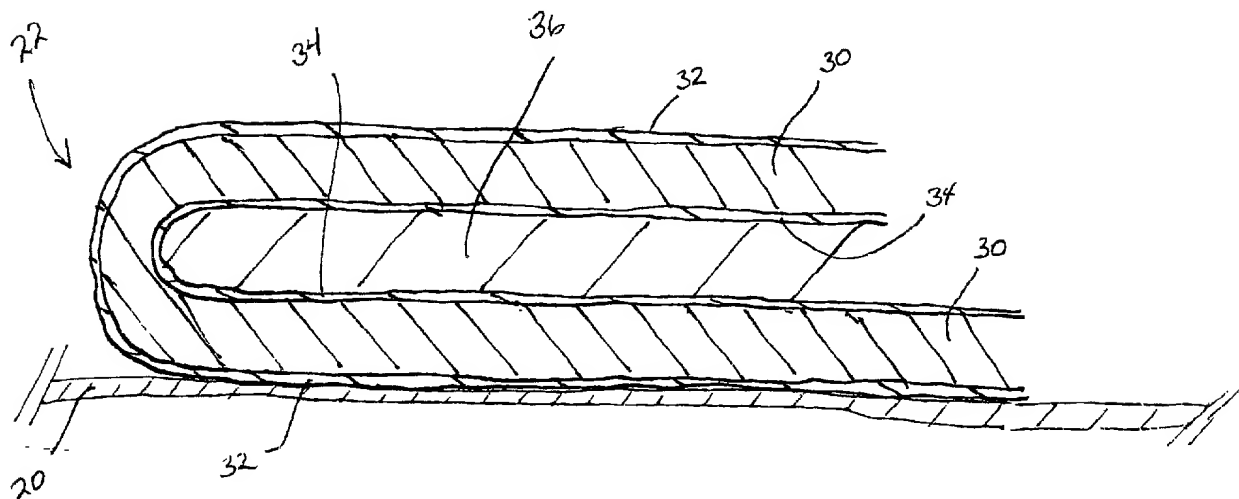


FIG. 4

FIG. 3

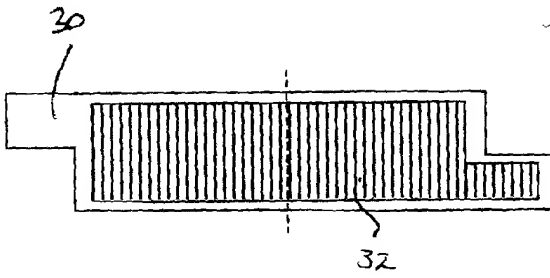


FIG. 4A

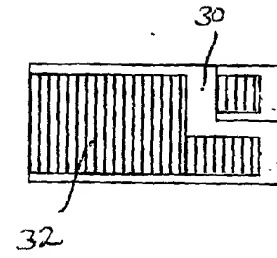


FIG. 4B

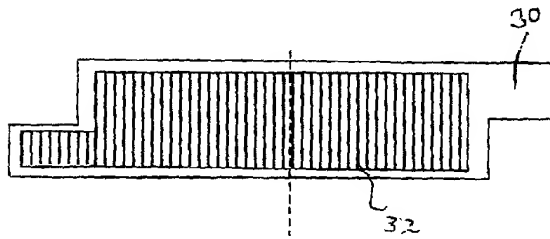


FIG. 4C

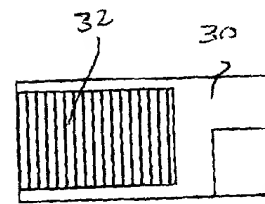


FIG. 4D

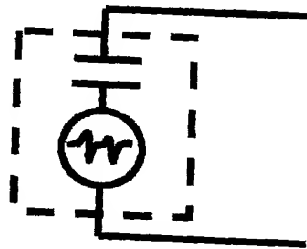
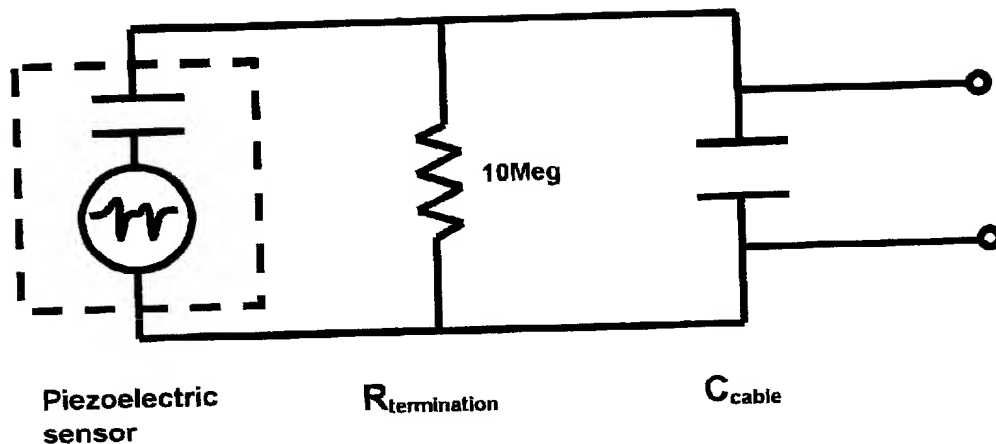


FIG. 5



Piezoelectric
sensor

$R_{\text{termination}}$

C_{cable}

FIG. 6

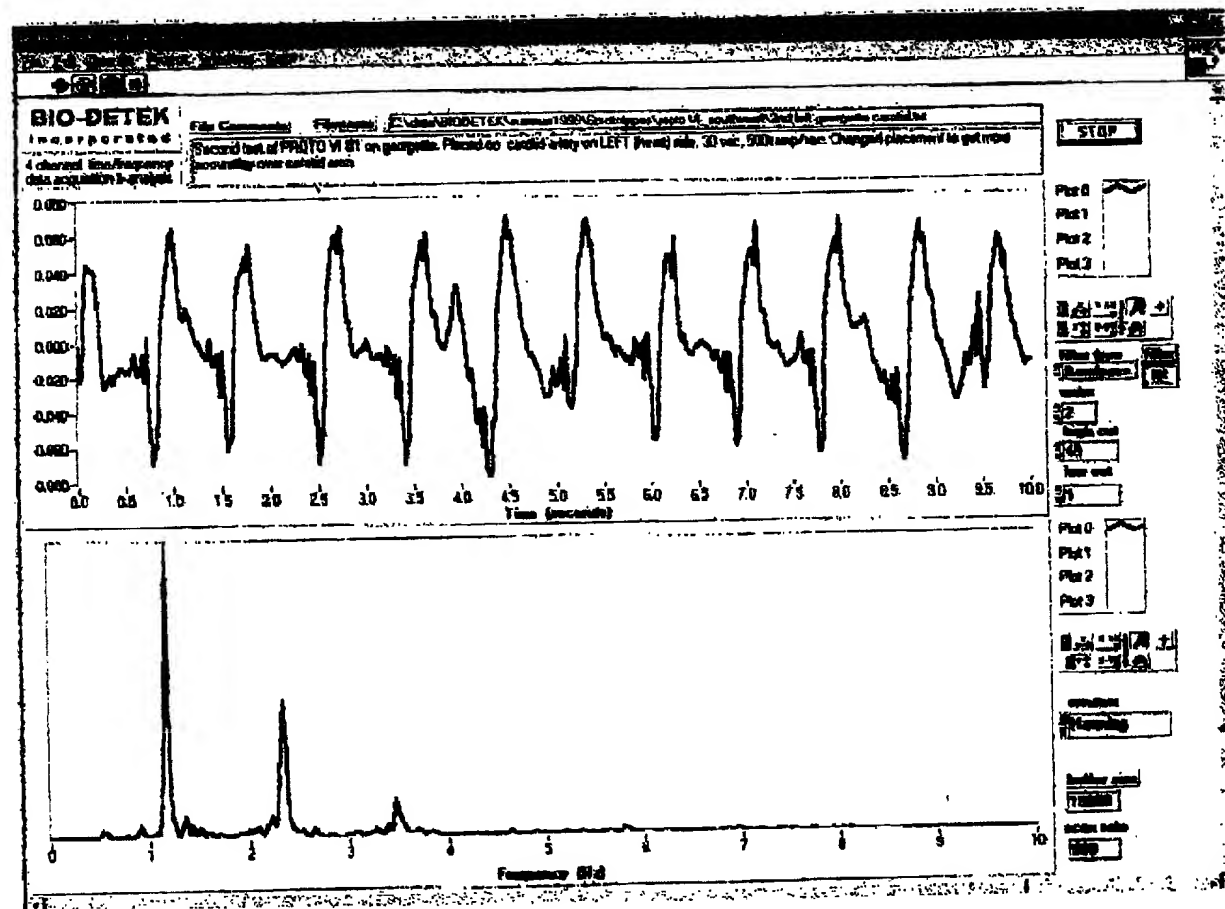


FIG. 7

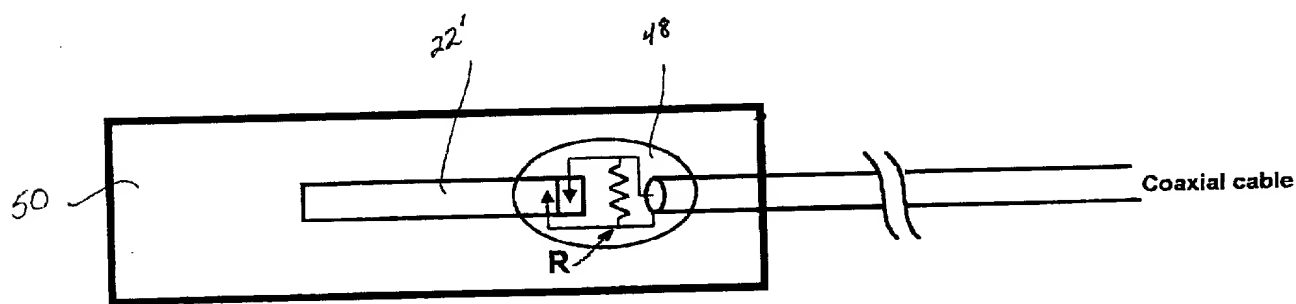


FIG 8

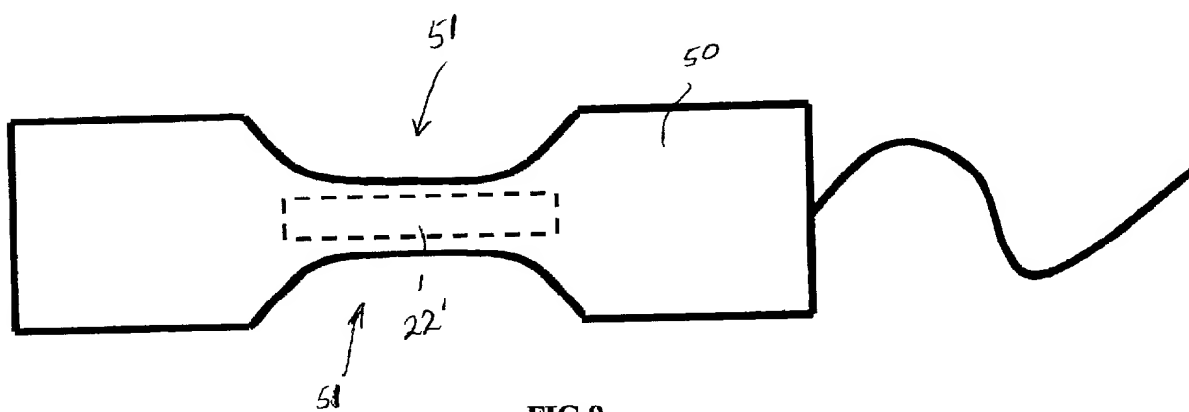


FIG 9

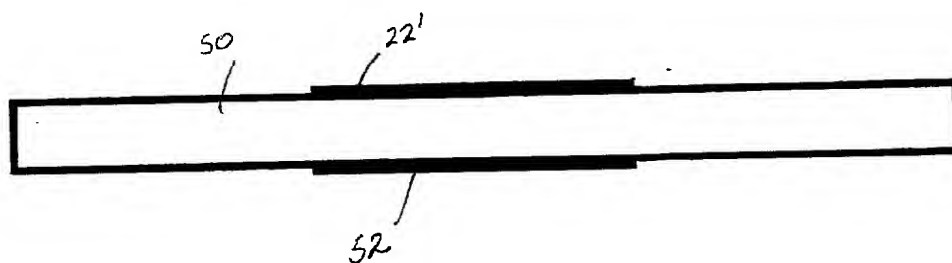


FIG 10

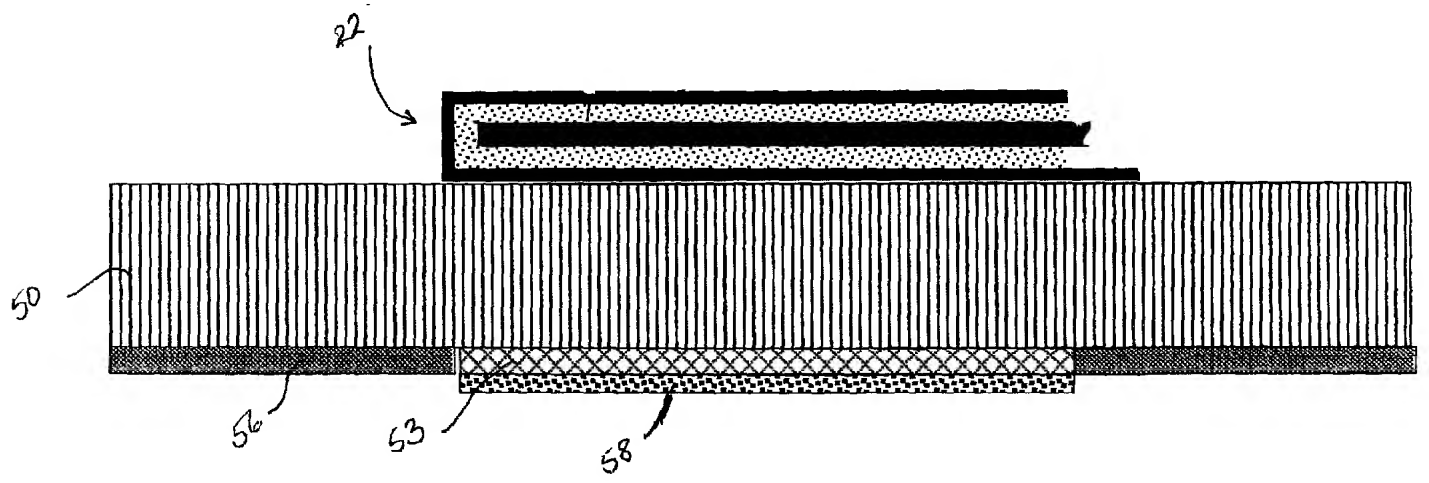


FIG 11

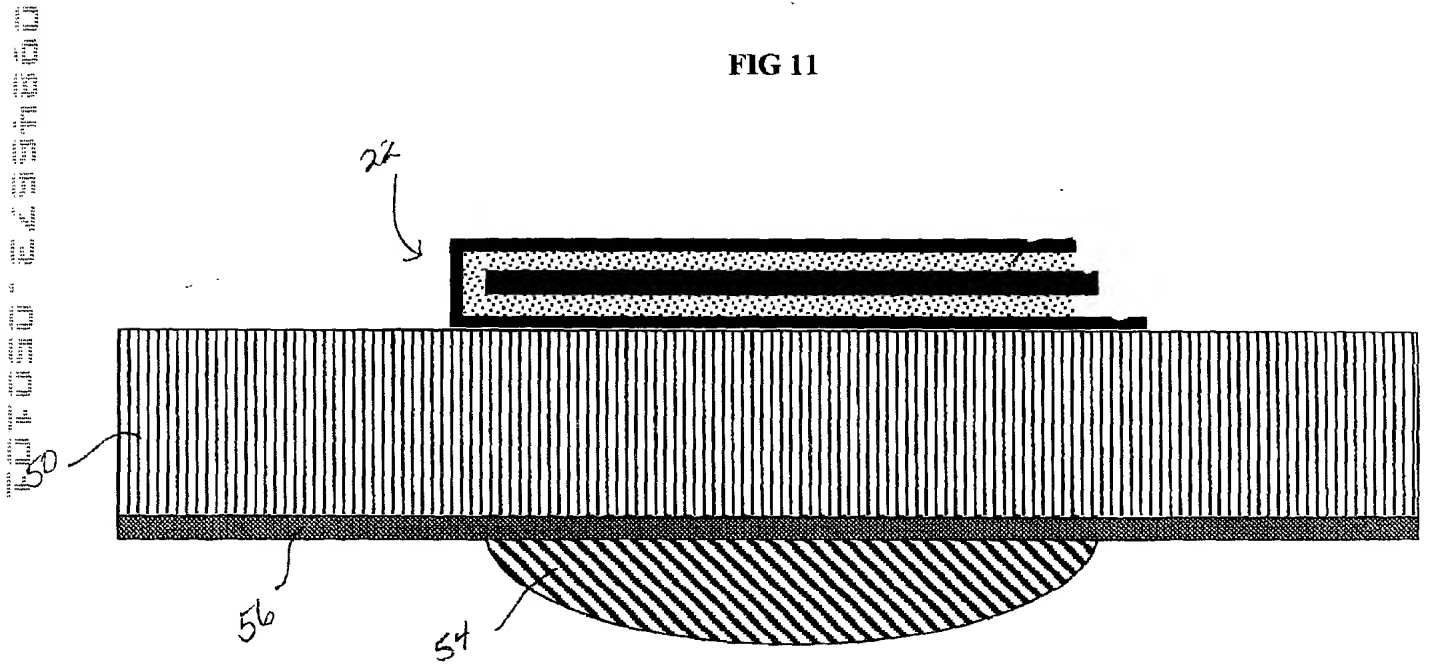
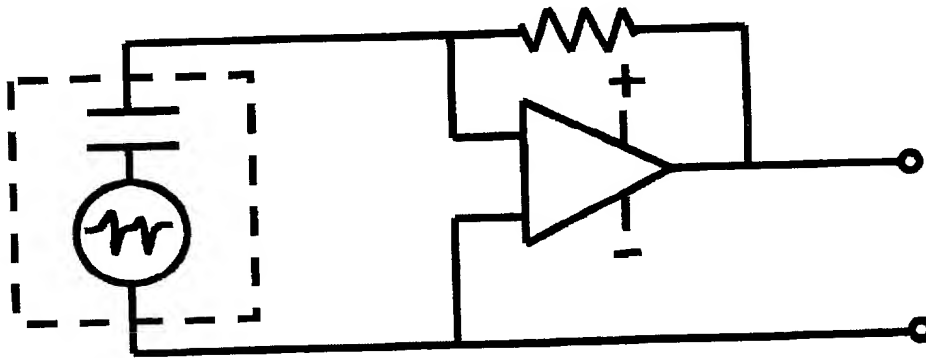


FIG 12

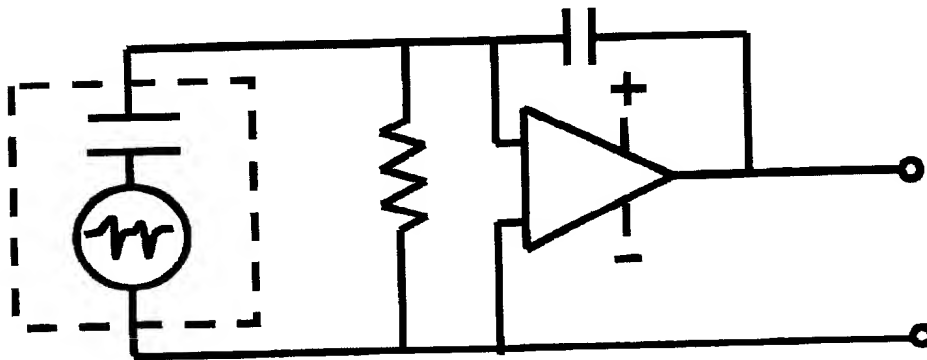
Transimpedance Amplifier



Piezoelectric sensor

FIG 13

Integration Amplifier



Piezoelectric sensor

FIG 14

Voltage Amplifier

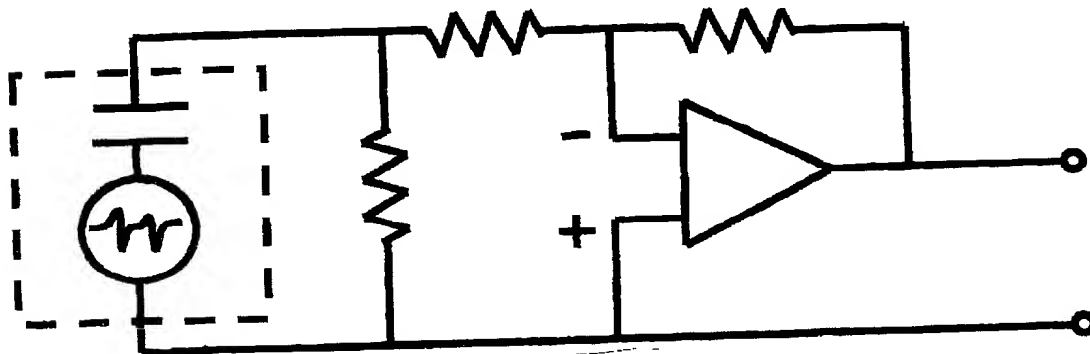


FIG. 15